TEDS Plan

August 1998

Proposed TEDS Data Flow Diagram

What FNMOC Will Do with TEDS
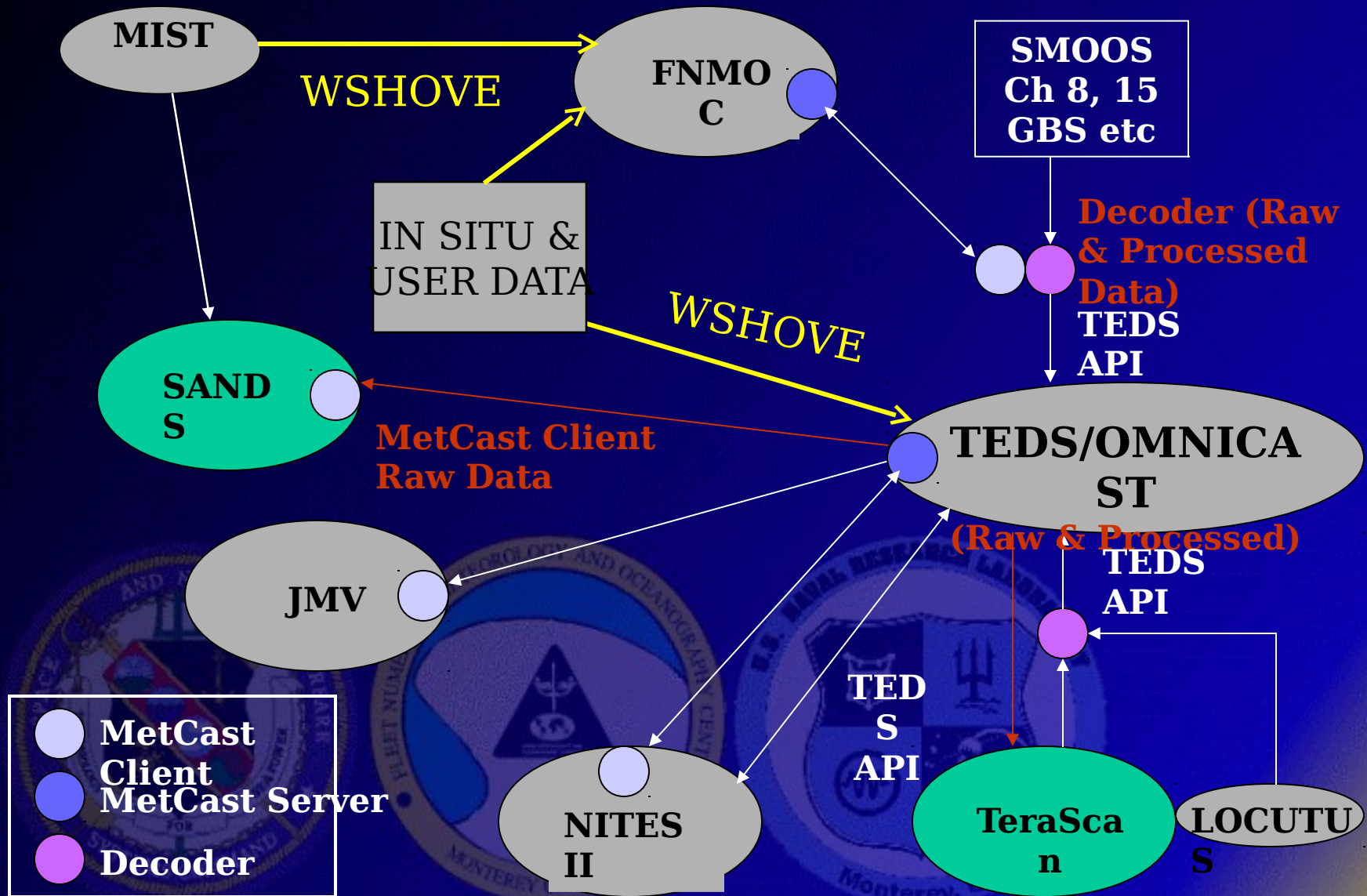
- Build Single Claimancy Database Solution

  – Merge OBS (LLT and Raw OBS In Common)

  – Enhance and Add Multiple Grid Resolutions

  – Store and Retrieve Multiple Resolutions for

ID	Task Name	Start Date	End Date	1998				1999			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1	Surface Observations (Land and Specials)	3/1/98	4/28/98								
2	SIGMETS	4/29/98	5/28/98								
3	ATCF	5/29/98	6/30/98								
4	TAF's	7/1/98	7/30/98								
5	Move input to direct NSTWG feed	8/1/98	9/1/98								
6	UAR	9/2/98	9/30/98								
7	Bathythermograph	10/16/98	11/13/98								
8	Surface Obs (buoys, ships)	11/15/98	12/15/98								
9	PIREPS	12/15/98	1/15/99								
10	AIRMETS	1/26/99	2/26/99								
11	WW's	3/1/99	3/29/99								

What FNMOC Will Do (Cont.)

- Develop a Java Version for METCAST Client
- Single End-to-End Database/Distribution Solution (Shrink-Wrapped) Guaranteed to Work
- Provide a High-Availability Solution: Death of a Component at 5 p.m. on Friday Doesn't Impact Operations, Can Be Fixed 9 a.m. Monday Allow Easy Input for In Situ and Other User Data
- Integrate and Enhance Existing Data Distribution Mechanisms
- Develop a METCAST Client for STAFC/STOFC
- Ability to Remotely Debug and Upgrade

What FNMOC Will Do (Cont.)

- Seamless Data Retrieval
  - Data Requests Could Be Automatically and Invisibly Forwarded from TEDS to Any Other Database
  - Provides Safety Net
- Smart Database Thinning
- Data Browse Capability
- Bit-Level Differencing for Communications
- Multiple Miscellaneous Channels - Allow User to Set Up Own Channels and Add Data to Them
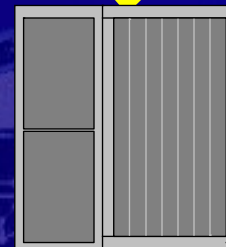- Include Additional OAML Climatology Database

SPAWAR SIPRNET JMS Server

2 CPU/256MB per Machine 10/100 Mb Ethernet to Switch

High Availability

Ent 450
TEDS/METCAST Server

Ent 450
HTTP, FTP, Mail

Ent 450 Front End
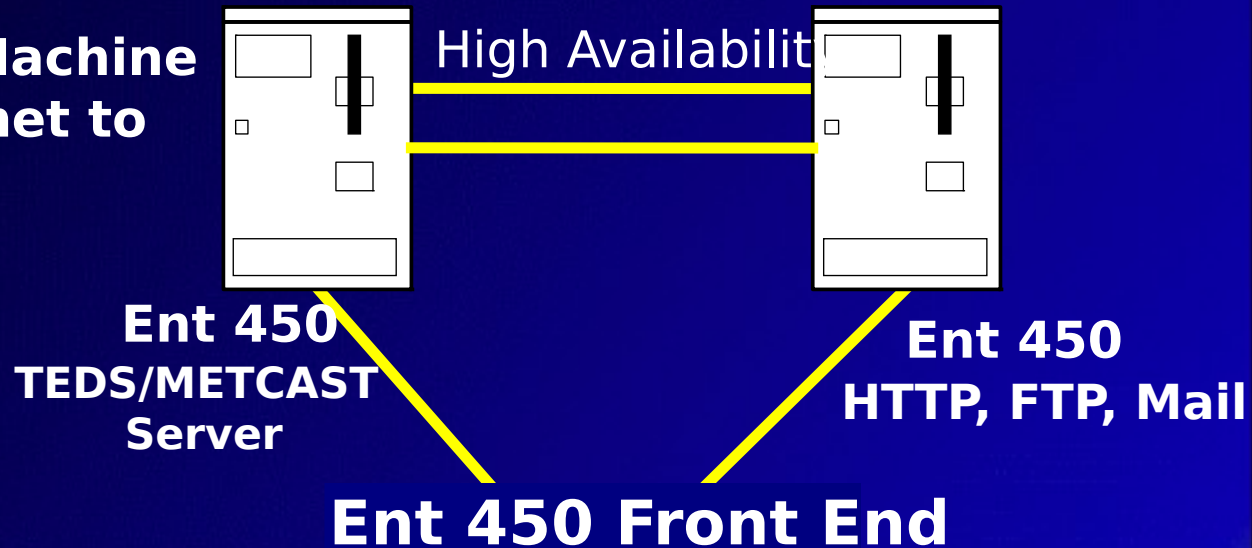
———— Ethernet

Existing Cisco Routers (May Require additional interfaces)

CISCO

SIPRNET/ NIPRNET

Advantages

- Single Solution Shares and Minimizes Risks

- Test, Systems Integration, and System Administration Are Shared

- Support, Maintenance and Operations of Database are Shared

- Common Data Distribution is Easier to Plan/Maintain

- Any New Data Element From Any Database Will Work On All Databases

Original Cost Spreadsheet

- A Rough Draft Analysis Stated That the Cost to Integrate TEDS Would Be 18.3 WY and $2,278 K (See Hand-Out)

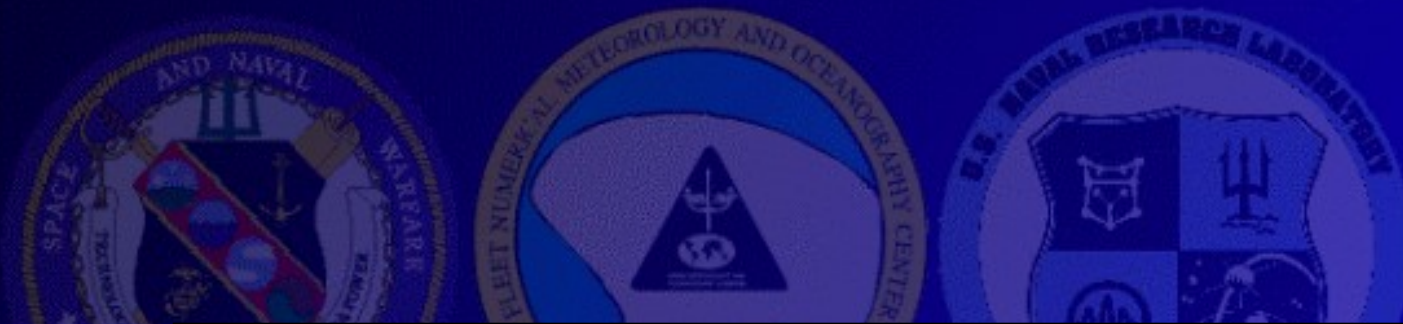- FNMOC Believes That the Work Can Be Shared and Distributed More Effectively (See Hand-Out).

Analysis Plan: 18.3 WY Funded by SPAW
W/FNMOC Support Plan: 11.5 WY Funded by SPAW

Recommendations

- Task and Fund FNMOC to Build Single, Claimancy-Wide Database Based on TEDS and OMNICAST

- FNMOC Will Provide a Single, Integrated, End-To-End Solution that is Tested Before Release

COMMON CLAIMANCY-WIDE SOLUTION